Norton AntiVirus™ for Microsoft Exchange

Symantec™

NORTON AntiVirus™
FOR MICROSOFT® EXCHANGE

Norton AntiVirus™ for Microsoft Exchange

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Norton AntiVirus for Microsoft Exchange

Norton AntiVirus secures your Microsoft Exchange environment against virus attack by monitoring all public folders and mailboxes on your Exchange servers. Norton AntiVirus operation is transparent to users, with minimal performance degradation to the network.

The Microsoft Exchange environment is only one avenue a virus can use to penetrate your site. For a complete virus protection solution, make sure the appropriate workstation or server version of Norton AntiVirus is installed on every computer at your site as well.

About Norton AntiVirus

Norton AntiVirus scans message bodies and attachments sent to mailboxes and public folders on Microsoft Exchange servers, including files in compressed and encoded formats, such as MIME and ZIP.

Through its HyperText Markup Language (HTML) user interface you view processing statistics, examine the Activity Log that records all Norton AntiVirus events, manage the Quarantine that stores items withheld from delivery, and configure operation—either from the physical server or remotely from any workstation on the network.

With the Norton AntiVirus Auto-Protect feature, viruses are detected in real time as email and messages are routed through the Microsoft Exchange server. If a virus is detected, Norton AntiVirus can be configured to do any of the following:

- Repair infected attachments to eliminate viruses automatically on detection.
- Quarantine infected attachments for administrator review.

- Delete infected attachments.
- Continue delivery, but log the virus detection.

When viruses are detected, email notifications are sent, optionally, to specified administrators. In addition, Windows NT alerts can be sent to specified machines and users. If Norton AntiVirus for Windows NT is running on the network, alerts can be sent to the Norton AntiVirus alert service.

What is a computer virus?

A computer virus is a program designed in such a way that, when run, it attaches a copy of itself to another computer program or document. Thereafter, whenever the infected program is run or the document is opened, the attached virus program is activated and attaches itself to yet other programs and documents.

In addition to replicating, viruses are generally programmed to deliver a payload. Most viruses simply display a message on a particular trigger date. Some, however, are programmed specifically to damage data by corrupting programs, deleting files, or reformatting disks.

Two classes of viruses present the greatest threat in the Microsoft Exchange environment:

- Macro viruses infect word processing and spreadsheet documents.
- Program viruses infect executable files.

The viruses spread as attachments to email and messages routed through Microsoft Exchange servers. Norton AntiVirus for Microsoft Exchange detects and eliminates these viruses.

How Norton AntiVirus works

Symantec engineers track reported outbreaks of computer viruses to identify new viruses. Once a virus is identified, information about the virus (a virus signature) is stored in a virus definitions file, which contains the necessary information to detect and eliminate the virus. When Norton AntiVirus scans for viruses, it is searching for these telltale virus signatures.

To supplement detection of known viruses, Norton AntiVirus includes a powerful component called Bloodhound. With this advanced heuristic technology, Norton AntiVirus can detect a high percentage of new or unknown viruses not yet analyzed by antivirus researchers.

The Norton AntiVirus LiveUpdate feature makes sure your virus protection remains current. Updated virus definitions files are available from Symantec regularly. With LiveUpdate, Norton AntiVirus connects automatically to a special Symantec site, determines if your files need updating, downloads the proper files, and installs them in the proper location.

Scanning modes

Previous versions of Norton AntiVirus for Microsoft Exchange used the Microsoft Messaging API (MAPI) to scan traffic for viruses. Microsoft Exchange Server 5.5 with Service Pack 3 or later (including Exchange 2000) adds the new Microsoft Virus Scanning API (VAPI).

VAPI functionality is vastly different from MAPI. VAPI will guarantee that an attachment is scanned before a user can access the attachement. The VAPI solution is also a more efficient approach for virus scanning and should have less impact on the server's performance.

VAPI, however, does not offer a great level of detail when it comes to determining the source of an attachment with an infection. The only information that will be reported is the attachment name. There is no information about the sender, recipient, message subject, or message location. These limitations prevent Norton AntiVirus from sending notifications to the sender and recipients of infected messages.

When VAPI is enabled, all attachments in the information store are scanned. There are no options to control which mailboxes or file types are to be scanned, as all attachments are scanned. Manual and scheduled scans of mailboxes and public folders are no longer necessary with the VAPI solution, as there is no way to retrieve an unscanned attachment from the Exchange information store. A configuration option enables background scanning of the entire Exchange information store.

With this new capability, Norton AntiVirus for Microsoft Exchange can be configured to run in one of three different modes, which can be selected at install or as a configuration choice after install.

■ MAPI mode: Uses the Messaging API (MAPI) that was used for previous versions of Norton AntiVirus for Microsoft Exchange. It logs into each protected mailbox and scans new mail as it arrives in the mailbox's inbox. This mode must be selected for earlier versions of Microsoft Exchange.

■ VAPI mode: Uses the new Virus Scanning API (VAPI) in Exchange 5.5 Service Pack 3. VAPI is used to scan every attachment as it is saved or

loaded from the Exchange information store. There is no information, however, about the sender, recipient, message subject, or message location. These limitations prevent Norton AntiVirus for Microsoft Exchange from sending notifications to the sender and recipients in this mode. Notifications, however, are sent to administrators.

■ MAPI/VAPI combination mode: Uses both MAPI and VAPI technologies. It uses VAPI to guarantee that all attachments are scanned, and it uses MAPI to determine more information about the source of an attachment for logging, alerting, and reporting.

For earlier versions of Microsoft Exchange that do not include VAPI, MAPI mode must be used. For later versions, the VAPI/MAPI combination mode is recommended. If server demand is very high and performance is critical, the VAPI only mode is suggested.

Installing Norton AntiVirus for Microsoft Exchange

Minimum system requirements

Norton AntiVirus for Microsoft Exchange runs under Windows NT on the Intel or Alpha platforms. Administrator-level privileges to Windows NT are required to install Norton AntiVirus. The Microsoft Exchange service account and password are requested during install.

Platform	Intel or Alpha running Windows NT
Operating systems	Windows NT Server 4.0 with Service Pack 3 or later Windows 2000
Microsoft Exchange	Version 5.0 or 5.5 with latest service packs, Exchange 2000
	For VAPI modes, version 5.5 with Service Pack 3 or Exchange 2000 is required (see "Scanning modes" on page 9)
Memory	128 MB RAM
Disk space to install	20 MB
Available disk space for processing	50 MB
Web browser to access Norton AntiVirus	Netscape Navigator (version 4.X or higher) or Internet Explorer (version 4.X or higher), Java, and JavaScript (cookies must be enabled)

Note: It is strongly recommended that servers running Exchange 5.5 Service Pack 3 upgrade to the latest hotfix. Service Pack 3 of Microsoft Exchange has a serious bug when using the Virus API. You should use version 5.5.2651.76 or later. The Exchange information store will not release handles properly and Norton AntiVirus for Microsoft Exchange and the Exchange Information Store will experience problems after several days of operation. See Microsoft Knowledge Base article Q248838 for the latest fixes to Service Pack 3.

Component locations

By default, Norton AntiVirus for Microsoft Exchange components are installed in the following locations:

\Program Files\Navmse	Norton AntiVirus program files
\Program Files\Navmse\Quarantine	Quarantined items in encrypted format
\Program Files\Navmse\Backup	Backed up before repair items in encrypted format
\Program Files\Navmse\Root	User interface files
\Program Files\Navmse\Reports	Reporting data
\Program Files\LiveUpdate	Component to update virus definitions

The following shortcuts are placed in the Norton AntiVirus for Microsoft Exchange group of the Windows Start menu:

■ Norton AntiVirus for Microsoft Exchange: Launch the Norton AntiVirus user interface.

■ LiveUpdate: Update virus definitions immediately.

■ Product Support Online: Access Symantec websites.

■ Virus Encyclopedia Online: Review detailed information about known viruses.

■ Product Registration: Register Norton AntiVirus for Microsoft Exchange.

■ Readme.txt: Review late-breaking news and compatibility information.

■ Uninstall: Uninstall Norton AntiVirus for Microsoft Exchange.

In addition, a LiveUpdate properties control panel is placed in the Windows Control Panel group to manually configure the LiveUpdate connection method, if necessary.

Before installing

Before installing, note the following:

■ Microsoft Exchange account and password: You will be prompted to enter the account name and password during setup.

  You must have the following User Rights to install:

  ■ Act as part of the operating system

- Log on as a service

■ Mailbox: During setup, a default mailbox called "NAV for Microsoft Exchange-<server name>" is created. This is the mailbox used by Norton AntiVirus for Microsoft Exchange to send email virus alerts.

Note: Under Exchange 2000, you must create this mailbox manually before installing.

You have the option of entering an existing mailbox instead (not necessarily that of an administrator) for an alternate recipient. For example, you may want users to be able to send an email reply to a particular person if they receive a virus alert.

■ Microsoft Exchange profile: A profile called "Norton AntiVirus for Microsoft Exchange" is created automatically during setup.

■ IP Addresses: During setup, the IP addresses of computers from which Norton AntiVirus for Microsoft Exchange will be accessed are entered. By default, the IP address range for the local network or subnet is used. An access password is also specified during setup.

For general security, you can use this entire range of IP addresses and rely on the password to restrict access. For maximum security, enter the specific IP addresses of administrators only.

You can identify the addresses individually and by range. For example,

```
123.12.123.123, 123.12.123.220-123.12.123.255
```

If you are going to administer Norton AntiVirus for Microsoft Exchange from the machine on which it is installed, that machine's IP address must be included as well.

Note: To add additional IP addresses after install, you must edit a registry key. See "Granting additional access to Norton AntiVirus for Microsoft Exchange" on page 19 for instructions.

Installing

To install Norton AntiVirus for Microsoft Exchange:

1 Gather the necessary pre-installation information (see the previous section, "Before installing").

2 Run the Norton AntiVirus for Microsoft Exchange Setup program (SETUP.EXE) and follow the directions in each panel.

On the distribution CD, SETUP.EXE for Norton AntiVirus for Microsoft Exchange is located in the `\Navxchng\Intel` folder for the Intel platform or `\Navxchng\Alpha` folder for the Alpha platform.

3   Note the IP address and port reported for Norton AntiVirus at the end of setup.

After installation, instruct your administrators to point their browsers to this IP address and port to access Norton AntiVirus for Microsoft Exchange.

A shortcut to the user interface is placed in the Start menu of the machine on which you installed Norton AntiVirus.

Installing to Microsoft Exchange cluster servers

Norton AntiVirus for Microsoft Exchange setup is MSCS aware. Setup automatically installs to Microsoft Exchange cluster servers (at the time of this writing only two nodes are supported by MSCS). A few extra steps, however, are required. The next procedures describe how to do the following:

■   Install on primary node

■   Install on secondary node

To install on the primary node:

1   Run the Norton AntiVirus for Microsoft Exchange Setup program (SETUP.EXE) on the system that is currently hosting Microsoft Exchange in the cluster.

2   In the User Interface Server panel, set the IP address to that of the Cluster IP Address for the Exchange server.

3   In the Remote Access panel, review the settings to ensure the appropriate IP address ranges are allowed access.

4   Complete the setup.

To install on a secondary node:

1   Run the Norton AntiVirus for Microsoft Exchange Setup program (SETUP.EXE) on the system that is acting as the secondary node.

2   Setup should detect that it is being installed on the secondary node, and install the local components of Norton AntiVirus for Microsoft Exchange.

3   Complete the setup.

Scheduling

Norton AntiVirus for Microsoft Exchange uses the NT Schedule service to schedule periodic scans of mailboxes and public folders in MAPI only mode. For all modes, it is used to schedule LiveUpdates of virus definitions. You can configure the Schedule service for Norton AntiVirus use on the cluster server. Note, however, this may affect the operation of other applications and services that use the Schedule service.

To create a Schedule service clustering resource for scheduled scan and scheduled LiveUpdate:

1   Use the Clustering Administrator to create a new clustering resource for the Schedule service in the same group as Microsoft Exchange.

It should have the following settings:

- ■ Name: `Schedule`
- ■ Resource Type: `Generic Service`
- ■ Dependencies: `Cluster IP Address`
- ■ Cluster Name
- ■ Service Name: `Schedule`
- ■ Use Network Name As Computer Name: Checked

2   Registry Keys: `SYSTEM\CurrentControlSet\Services\Schedule`

3   Complete the New Resource wizard.

In this cluster server configuration, Norton AntiVirus for Microsoft Exchange virus definitions are maintained separately by each node of the cluster. Some effort should be made to keep the virus definitions up-to-date on each node.

One solution is to install NAVNT on each node. Because NAVNT and NAVMSE share virus definitions, NAVNT can be used to schedule LiveUpdates for use by both products. NAVNT does not use the NT schedule service. Additionally, NAVNT provides virus protection for the local files of the node.

Using Norton AntiVirus for Microsoft Exchange

The Norton AntiVirus service, NAV for Microsoft Exchange, is started automatically whenever the server is restarted.

To access the Norton AntiVirus for Microsoft Exchange interface:

1   Do one of the following:

-   Double-click the NAV for Microsoft Exchange shortcut on the Windows desktop.

-   Click the NAV for Microsoft Exchange shortcut in the Windows Start menu.

-   In a browser from any computer on the network, enter the IP address and port where Norton AntiVirus runs (for example, http://127.0.0.1:80). This information was reported during setup.

    The IP address of a remote computer must have been listed during setup. If a machine was not registered during setup, see "Granting additional access to Norton AntiVirus for Microsoft Exchange" on page 19.

2   Enter the password specified during setup.

    Although the browser asks for a user name, only the password is required. The user name is ignored.

MAPI/VAPI combination mode

MAPI only mode

Manual and Scheduled Scans available in MAPI only mode

There are three primary Norton AntiVirus operations: reporting, scanning, and configuration.

Reporting

- Statistics: Summaries of Auto-Protect processing, virus detections, and Norton AntiVirus status.

- Reports: Detections ordered by author, scan type, or virus, can be sorted by month or year. Raw data can also be downloaded in comma-delimited format (.CSV).

- Quarantine: Infected attachments that have been stripped from emails and messages.

- Backup: Copies of attachments backed up before a repair is attempted.

- Activity Log: Server events including Auto-Protect, virus detections, LiveUpdate, and services. In MAPI mode, Manual and Scheduled Scans information is included.

Scanning

- Auto-Protect: Detects viruses in realtime, before they have a chance to spread through the site. Auto-Protect is the best defense against virus attack.

  In VAPI or MAPI/VAPI mode, Auto-Protect includes background scans of the Exchange information store that replace manual and scheduled scans.

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■ Manual Scan (MAPI mode only): Scans of mailboxes and public folders on demand.

■ Scheduled Scans (MAPI mode only): Scans that run unattended, usually at off-peak periods, to ensure that your Microsoft Exchange servers remain virus-free. The Windows NT Scheduler service must be running.

Configuration

■ Global Options: Optimize Auto-Protect, Manual Scan (MAPI mode), and future Scheduled Scans (MAPI mode). Set notifications, logging, reporting, and Quarantine server options. The default settings are appropriate for most sites.

■ LiveUpdate: Set the frequency at which updated virus definitions files are automatically downloaded and installed to ensure protection against newly discovered viruses.

Changing scanning modes

Norton AntiVirus for Microsoft Exchange operates in three different modes:

■ MAPI/VAPI combination mode: Uses the latest antivirus technology (VAPI), including full-featured logging and reporting capability. Recommended for most installations.

■ VAPI mode: Uses the latest antivirus technology (VAPI), but logging and reporting capabilities are reduced. Recommended when server performance is critical.

■ MAPI mode: Provides virus protection using existing antivirus technology, but includes full-featured logging and reporting capability.

See "Scanning modes" on page 9 for more information.

To change modes after installation:

1   In the left panel, click Auto-Protect.
2   On the mode tab, select the preferred operating mode and click Switch Mode.

Granting additional access to Norton AntiVirus for Microsoft Exchange

As a security precaution, Norton AntiVirus can only be accessed from machines whose IP addresses were entered during setup. To add additional machines after setup, you must modify a registry key on the machine on which Norton AntiVirus is installed:

```
HKEY_LOCAL_MACHINE\Software\Symantec\
NAVMSE\2.1\ModifyIPaddrs
```

You can identify the addresses individually and by range. For example,

```
123.12.123.123, 123.12.123.220-123.12.123.255
```

After making changes, stop and restart the NAV for Microsoft Exchange service.

Scanning for viruses: VAPI and MAPI/VAPI combination modes

This section describes scanning in VAPI and MAPI/VAPI combination modes. See "Scanning for viruses: MAPI only mode" on page 23 for information about MAPI only mode.

All scanning in the VAPI and MAPI/VAPI combination modes is performed by Auto-Protect. Three aspects are configured: Scan, Detect, and Alerts.

To configure Auto-Protect:

1   In the Norton AntiVirus window, click Auto-Protect.

2   Specify settings on the Scan, Detect, and Alerts tabs. Click the Save Settings button on each tab after making changes.

Scan settings

Scan: Enable Auto-Protect

- Check to enable Auto-Protect operation. With VAPI, every attachment is scanned before it can be accessed by a user.

- To supplement Auto-Protect, check Scan All Attachments In Store In The Background. Because all items in the Exchange information store are scanned, manual and scheduled scans are not required for complete protection.

Detect: What to do if a virus is detected

- Log Only: The detection is entered in the log and the email or message is delivered with the infected attachment.

- Quarantine: The infected attachment is stripped and the email or message is delivered. The attachment is replaced with a text notification. Click Quarantine to view or delete quarantined items. See "Managing reports" on page 35 for information on using the Quarantine. The attachment is replaced with a text notification.

- Delete: Infected attachments are simply stripped and deleted. The attachment is replaced with a text notification. The remainder of the email or message is delivered.

- Repair: The virus is eliminated from the attachment and delivery is continued. Norton AntiVirus for Microsoft Exchange detects and eliminates viruses within compressed files, such as ZIP and encoded MIME formats.

  If for any reason the attachment cannot be repaired, you can specify an alternative option: Log Only, Delete, or Quarantine.

Alerts: Whom to notify if a virus is detected

- Emails: Specify who is notified of the virus detection. If your options are set to Delete or Quarantine, this may be the only time users are apprised that something is missing from the email or message.

- Alerts: Specify users and machines to receive Windows NT alerts on virus detections. If Norton AntiVirus for Windows NT Servers is running on the network, alerts can be sent to its alert service as well.

Mode: Switch scan modes

■　Select the Norton AntiVirus scanning mode: MAPI/VAPI, VAPI, or MAPI. See "Scanning modes" on page 9 for more information.
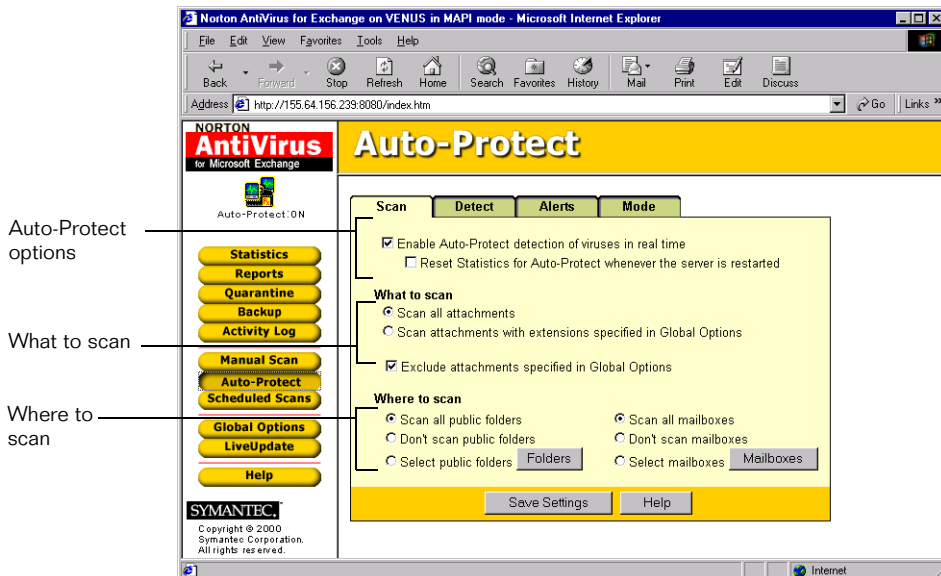
Scanning for viruses: MAPI only mode

This section describes scanning in MAPI only mode. See "Scanning for viruses: VAPI and MAPI/VAPI combination modes" on page 20 for information about VAPI and MAPI/VAPI combination modes.

The procedure to implement each Norton AntiVirus scan type in MAPI mode is essentially the same, with three tabs for each scan type: Scan, Detect, and Alerts. Auto-Protect has additional check boxes to enable or disable protection and reset processing statistics. Scheduled Scans has an additional tab to set the scan frequency.

Note: To be scanned, public folders and mailboxes must reside on the Microsoft Exchange server.

To configure scans:

1   In the Norton AntiVirus window, click a scan type in the left panel: Manual Scan, Auto-Protect, or Scheduled Scans.

Note: For Scheduled Scans, click Add Scan in the list of scheduled scans to schedule a new scan. Select an existing scan and click Edit to modify it. The Windows NT Schedule service must be running for scheduled scans to occur. If the Schedule service is not running, the list of scheduled scans is not displayed. You can still click Add Scan to schedule scans.

---

2   Specify settings on the Scan, Detect, and Alerts tabs. Click the Save Settings button on each tab after making changes.

    See "Scan settings" on page 21 for information about the settings.

3   Enable the scan. Do one of the following:

    ■   Manual Scan

        After the scan is configured, click the Scan Now button at the bottom of the Scan tab to begin the scan.

    ■   Auto-Protect

        Use the Enable Auto-Protect check box on the Scan tab to turn real-time protection on or off.

    ■   Scheduled Scans

        Click the Add To Schedule button on the Schedule tab to return to the display of scheduled scans.

Scan settings

Scan: What and where to scan

■   Scan all attachments or specified attachments: To reduce resource demand, you can instruct Norton AntiVirus for Microsoft Exchange to scan only attachments likely to become infected. The default list of file extensions, set in Global Options, contains most file types at risk. If you encounter executable files with unusual extensions, you can add them to the list.

■   Exclude specified extensions: Also identified in Global Options, attachments with these extensions are not scanned. Exclusions take precedence over Scan All or Scan Specified Attachments settings. An excluded item is never scanned.

■   Specify which specific public folders and mailboxes to scan.

Detect: What to do if a virus is detected

- Log Only: The detection is entered in the log and the email or message is delivered with the infected attachment.

- Quarantine: The infected attachment is stripped and the email or message is delivered. The attachment is replaced with a text notification. Click Quarantine to view or delete quarantined items. See "Managing reports" on page 35 for information on using the Quarantine.

- Delete: Infected attachments are simply stripped and deleted. The attachment is replaced with a text notification. The remainder of the email or message is delivered.

- Repair: The virus is eliminated from the attachment and delivery is continued. Norton AntiVirus for Microsoft Exchange detects and eliminates viruses within compressed files, such as ZIP and encoded MIME formats.

  If for any reason the attachment cannot be repaired, you can specify an alternative option: Log Only, Delete, or Quarantine.

Alerts: Whom to notify if a virus is detected

- Emails: Specify whether administrators, intended recipients, or senders of the email or message are notified of the virus detection. If your options are set to Delete or Quarantine, this may be the only time users are apprised that something is missing from the email or message.

- Alerts: Specify users and machines to receive Windows NT alerts on virus detections. If Norton AntiVirus for Windows NT Servers is running on the network, alerts can be sent to its alert service as well.
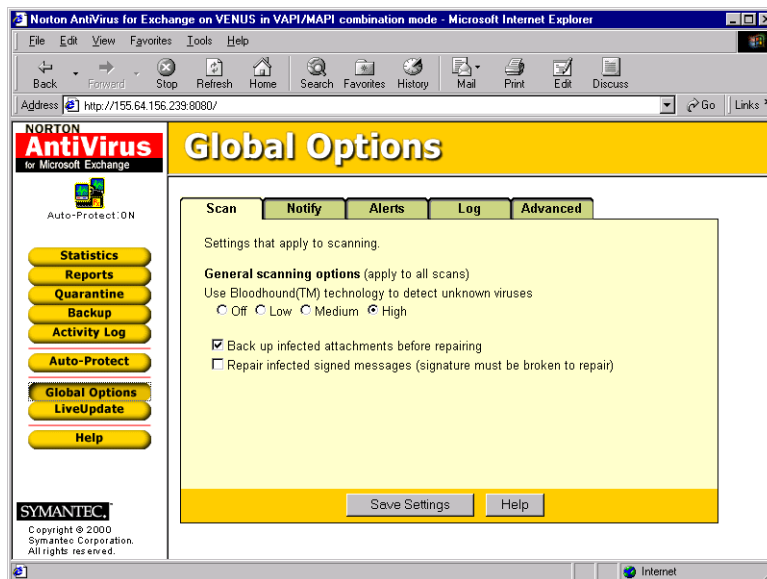
Mode: Switch scan modes

- Select the Norton AntiVirus scanning mode: MAPI/VAPI, VAPI, or MAPI. See "Scanning modes" on page 9 for more information.

Setting Global Options

Global Options apply to all scan types. If a setting is changed, it affects whatever is selected in Auto-Protect, and Manual and future Scheduled Scans in MAPI only mode. See for a summary of the differences among the modes.

Note: All screens display the default global options.

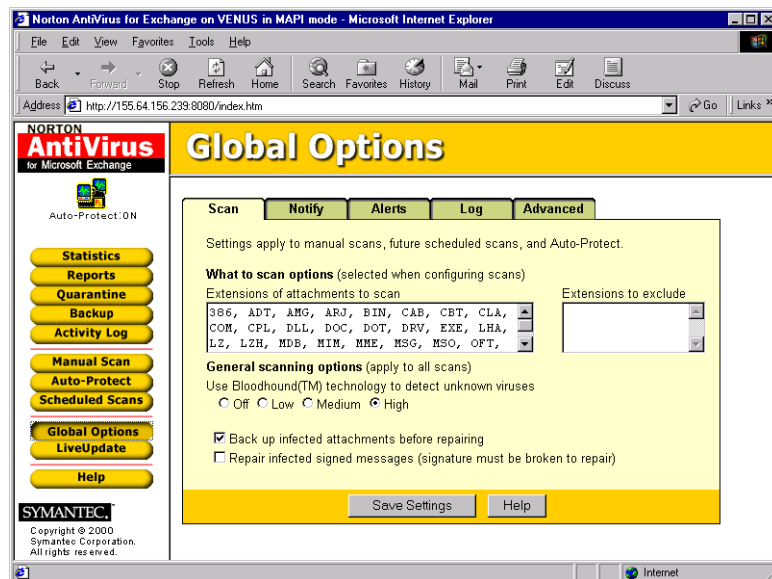## Global Options: Scan (VAPI and MAPI/VAPI combination modes)

- Use Bloodhound virus detection technology: To supplement detection of known viruses, Norton AntiVirus can detect a high percentage of new or unknown viruses not yet analyzed by antivirus researchers. The Medium setting optimizes processing. In a high-risk environment, increase to High.

- Back up attachments before repairing: For additional security, Norton AntiVirus can make a backup copy of an infected attachment before attempting to eliminate a virus. There is a slight increase in processing time with this option.

Backed up files are stored in a Backup directory that is created in the NAVMSE directory during setup. To release files, click Backup in the left panel, then click Release To File System. They are released to the Backup\Release directory.

■ Repair signed messages: Norton AntiVirus can scan signed messages for viruses. However, if you specify the Repair option when configuring the various scan types, the signature must be violated to make the repair.

Global Options: Scan (MAPI only mode)

■ Attachments to scan: To reduce resource demand when setting the various scan options, you can instruct Norton AntiVirus to scan only attachments likely to become infected. The default list of file extensions contains most file types at risk. If you encounter executable files with unusual extensions, you can add them to the list.

■ Files and extensions to exclude from scans: If selected when setting the various scan options, attachments with these extensions are not scanned. Exclusions take precedence over other scan settings. An excluded item is never scanned.

■ Use Bloodhound virus detection technology: To supplement detection of known viruses, Norton AntiVirus can detect a high percentage of new or unknown viruses not yet analyzed by antivirus researchers. The
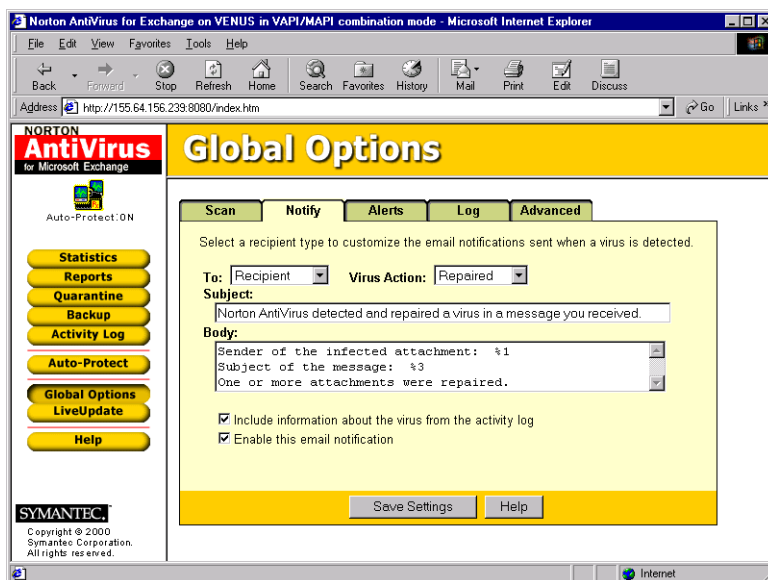
Medium setting optimizes processing. In a high-risk environment, increase to High.

■ Back up attachments before repairing: For additional security, Norton AntiVirus can make a backup copy of an infected attachment before attempting to eliminate a virus. There is a slight increase in processing time with this option.

Backed up files are stored in a Backup directory that is created in the NAVMSE directory during setup. To release files, click Backup in the left panel, then click Release To File System. They are released to the Backup\Release directory.
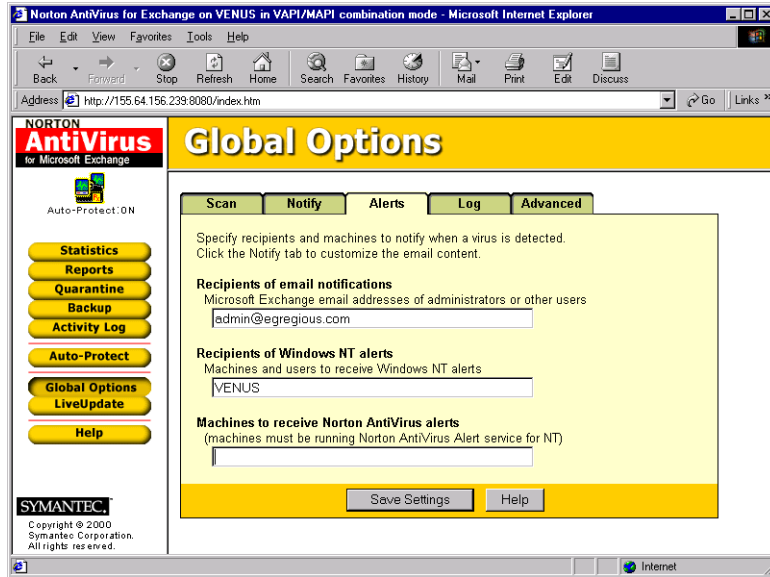
■ Repair signed messages: Norton AntiVirus can scan signed messages for viruses. However, if you specify the Repair option when configuring the various scan types, the signature must be violated to make the repair.

Notify options

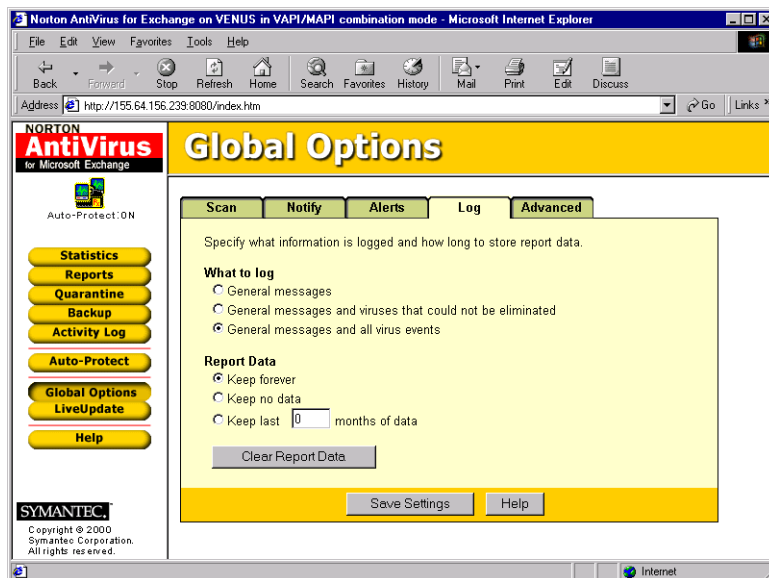

Customize the content of email alerts sent to administrators, intended recipients, and message authors when a virus is detected. You can have different subjects and content for each group. For example, for message authors you may want to identify an MIS technician users can contact for more information or describe a procedure to run a workstation scan with a local version of Norton AntiVirus.

Alerts options

List the email addresses of administrators, machines, and users to receive Windows NT alerts, and machines running Norton AntiVirus for Windows NT Servers. In each case, separate entries with semicolons. Do not include spaces after the semicolon.

Log options

Specify what to log. The Norton AntiVirus activity log is viewed through
the HTML interface. You can set how long Norton AntiVirus keeps data for
the activity log. In addition, all events are stored in the Windows NT
application log, viewed with the Windows NT event viewer.

Advanced options

If a Norton AntiVirus Central Quarantine server is created as part of enterprise-wide antivirus protection managed by the Symantec System Center, items can be forwarded automatically from the Norton AntiVirus for Microsoft Exchange Quarantine to the Central Quarantine. Specify the IP address and listening port set when configuring the centralized Quarantine and the appropriate network protocol. See your Symantec System Center documentation for more information.

Refresh Settings determine how frequently Norton AntiVirus checks for newly created folders and mailboxes.

Maintaining current protection

Norton AntiVirus relies on up-to-date information to detect and eliminate viruses. One of the most common reasons virus problems occur is that virus definitions files are not updated after installation. Symantec regularly supplies updated virus definitions files that contain the necessary information about all newly discovered viruses.

About LiveUpdate

With LiveUpdate, Norton AntiVirus connects automatically to special Symantec sites and determines if virus definitions need updating. If so, it downloads the proper files and installs them in the proper location.

LiveUpdate also checks for and downloads program patches to Norton AntiVirus for Microsoft Exchange, if available. An email is sent to administrators specified in Global Options with the location of the patch. Program modifications are never made outside of administrator control.

Generally, you do not have to do anything to configure LiveUpdate. The only requirement is an Internet connection. If necessary, you can configure LiveUpdate operation.

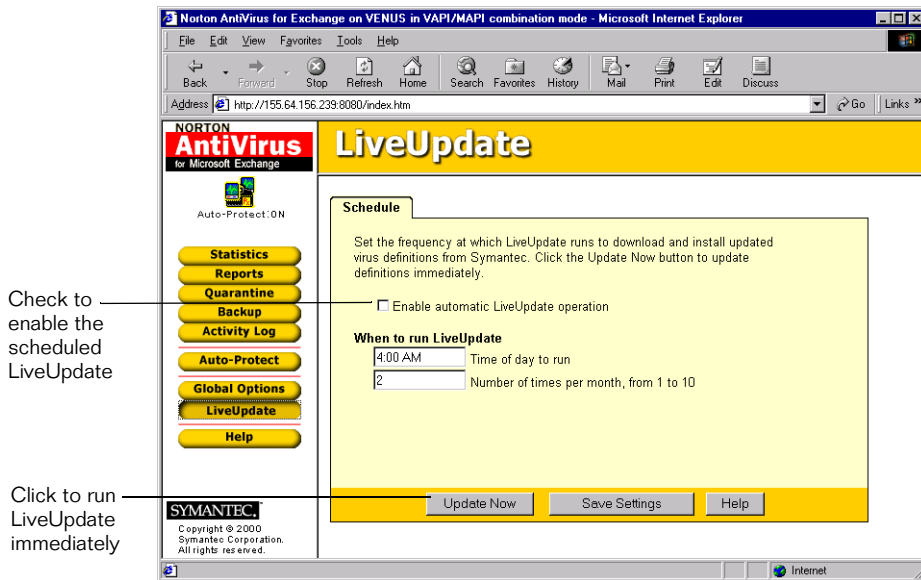**To configure LiveUpdate operation:**

1   Open the Windows NT Control Panel.

2   Double-click LiveUpdate.

3   Modify your settings in LiveUpdate Properties.

     The LiveUpdate online help explains all options.

How to update virus protection

To schedule automatic LiveUpdates:

1   In the Norton AntiVirus for Microsoft Exchange main window, click LiveUpdate.

Check to enable the scheduled LiveUpdate

Click to run LiveUpdate immediately

2   In the Schedule section of the form, check Enable LiveUpdate.

If you choose to disable automatic operation, make it a practice to click the Update Now button regularly.

3   Enter the number of times per month for LiveUpdate to run.

A month is considered to be 28 days. The initial LiveUpdate runs on a random day during the month. The next runs 28/n days later.

4   Enter the time of day that LiveUpdate runs.

Specify an off-peak time in a high-traffic network.

Updating virus protection without LiveUpdate

Symantec provides the latest virus definitions files with a program called Intelligent Updater, available for download from the Symantec website (http://www.symantec.com) and other sources listed in the Service and Support Solutions in this guide.

To update virus definitions files:

1   Download (or copy) Intelligent Updater to any directory on the server.

2   Run Intelligent Updater.

    Intelligent Updater reads the Windows NT registry and installs the necessary files in the proper locations.

3   Delete the downloaded Intelligent Updater program.

Managing reports

Once configured, Norton AntiVirus runs quietly and vigilantly in the background. Although you access the program to view Statistics, examine the Activity Log, and manage the Quarantine of infected items, the only real requirement is to update virus definitions regularly.

Statistics

Provides a live report of Norton AntiVirus Auto-Protect operation. General metrics show how efficiently the scanning runs on your server.

Reports

Provides summaries of virus detections. The detections can be ordered by author, scan type, or virus, and restricted to month or year. For display by other applications, the raw data can also be downloaded in comma-delimited format (.CSV).

Quarantine

Stores virus-infected attachments detected during scans. Attachments are placed in the Quarantine under three circumstances:

■   A virus is detected in an attachment and your scan is configured to withhold delivery rather than let Norton AntiVirus repair or delete the infected attachment.

■   Your scan is configured to let Norton AntiVirus repair infected attachments, and Quarantine is selected for the attachments that can't be repaired. Sometimes attachments can't be properly restored because they are corrupted or damaged by a virus that causes irreversible damage.

■ If an item can't be scanned, it is quarantined by default. For example, an item my be compressed and password-protected.

Infected items are held in the Quarantine for administrator review. You can delete or release the quarantined items from within Norton AntiVirus for Microsoft Exchange.

Quarantined files are encrypted and stored in a Quarantine directory that is created in the NAVMSE directory during setup. To release files, click Quarantine in the left panel, then click Release To File System. They are released to the Quarantine\Release directory.

Click Release By Mail to release the item to the intended recipient. If the recipient is not known, it is sent to administrators identified on the Alerts tab of Global Options. Note that if an item is released by mail, the the scan policy in force will apply to the item. If infected, it will be detected again.

Backup

For data security, Norton AntiVirus can make an encrypted backup copy of a file before attempting a repair. The files are stored in a Backup directory that is created in the NAVMSE directory during setup.

After verifying that the virus-infected files were successfully repaired, delete them. If necessary, you can release the backed up files. Click Release To File System. They are released to the Backup\Release directory.

Activity Log

By default, records all virus, configuration, and server events. The log lists entries in chronological order beginning with the most current event at the top. You can specify dates of interest as well as filter the log to display specific events.

In the Log tab of Global Options, you can specify which events to record to the Windows NT event log.

S U P P O R T

Service and support solutions

Service and support information is available from the Help system of your Symantec product. Click the Service and Support topic in the Help index.

Technical support

Symantec offers several technical support options:

- StandardCare support

    Connect to the Symantec Service & Support Web site at http://service.symantec.com, then select your product and version. This gives you access to product knowledge bases, interactive troubleshooter, Frequently Asked Questions (FAQs), and more.

- PriorityCare, GoldCare, and PlatinumCare support

    Fee-based telephone support services are available to all registered customers. For complete information, please call our automated fax retrieval service at (800) 554-4403 and request document 933000.

    For telephone support information, connect to http://service.symantec.com, select your product and version, and click Contact Customer Support.

- Automated fax retrieval

    Use your fax machine to receive general product information, fact sheets, and product upgrade order forms by calling (800) 554-4403. For technical application notes, call (541) 984-2490.

Support for old and discontinued versions

When a new version of this software is released, registered users will receive upgrade information in the mail. Telephone support will be provided for the old version for six months after the release of the new version. Technical information may still be available through the Service & Support Web site (http://service.symantec.com).

When Symantec announces that a product will no longer be marketed or sold, telephone support will be discontinued 60 days later. Support will be available for discontinued products from the Service & Support Web site only.

Customer service

Visit Symantec Customer Service online at http://www.symantec.com/techsupp/news/custserv.html for assistance with non-technical questions and for information on how to do the following:

■ Subscribe to the Symantec Support Solution of your choice.

■ Obtain product literature or trialware.

■ Locate resellers and consultants in your area.

■ Replace missing or defective CD-ROMS, disks, manuals, and so on.

■ Update your product registration with address or name changes.

■ Get order, return, or rebate status information.

■ Access customer service FAQs.

■ Post a question to a Customer Service representative.

For upgrade orders, visit the online upgrade center at: http://www.symantec.com/upgrades/ or call the Customer Service Order Desk at (800) 568-9501.

Worldwide service and support

Technical support and customer service solutions vary by country. For information on Symantec and International Partner locations outside of the United States, please contact one of the service and support offices listed below, or connect to http://www.symantec.com, select the country you want information about, and click Go!

Service and support offices

North America

Symantec Corporation   http://www.symantec.com/
175 W. Broadway   (Fax: (541) 984-8020)
Eugene, OR 97401

Automated Fax Retrieval   (800) 554-4403
                              (541) 984-2490

Argentina, Chile, and Uruguay

Symantec Region Sur   http://www.symantec.com/region/mx
Cerrito 1054 - Piso 9   +54 (11) 4315-0889
1010 Buenos Aires   Fax: +54 (11) 4314-3434
Argentina

Asia/Pacific Rim

Symantec Australia Pty. Ltd. http://www.symantec.com/region/reg_ap/
408 Victoria Road   +61 (2) 9850 1000
Gladesville, NSW 2111   Fax: +61 (2) 9817 4550
Australia

Brazil

Symantec Brazil   http://www.symantec.com/region/br/
Av. Juruce, 302 - cj 11   +55 (11) 531-7577
São Paulo - SP   Fax: +55 (11) 5530 8869
04080 011
Brazil

Columbia, Venezuela, the Caribbean, and Latin America

Symantec América Latina   http://www.symantec.com/region/mx/
2501 Colorado, Suite 300   +1 (541) 334-6050 (U.S.A.)
Santa Monica, CA 90404   Fax: (541) 984-8020 (U.S.A.)

Europe, Middle East, and Africa

Symantec Customer Service Center	http://www.symantec.com/region/reg_eu/
P.O. Box 5689	+353 (1) 811 8032
Dublin 15	Fax: +353 (1) 811 8033
Ireland	
Automated Fax Retrieval	+31 (71) 408-3782

Mexico

Symantec Mexico	http://www.symantec.com/region/mx
Periferico Sur No. 3642, Piso 14	+52 (5) 661-6120; +1 (800) 711-8443
Col. Jardines del Pedregal	Fax: +52 (5) 661-8819
09100 Mexico, D.F.	

Virus protection subscription policy

If your Symantec product includes virus protection, you might be entitled to receive free virus protection updates via LiveUpdate. The length of the free subscription could vary by Symantec product.

When you near the end of your virus protection subscription, you will be prompted to subscribe when you start LiveUpdate. Simply follow the instructions on the screen. After your free subscription ends, you must renew your subscription before you can update your virus protection. Renewal subscriptions are available for a nominal charge.

To order a subscription, do one of the following:

■ Visit our Web site at: http://www.shop.symantec.com.

■ Outside the United States, contact your local Symantec office or representative.

Every effort has been made to ensure the accuracy of this information. However, the information contained herein is subject to change without notice. Symantec Corporation reserves the right for such change without prior notice.

May 2000

Norton AntiVirus™ for Microsoft Exchange
CD Replacement Form

DISK REPLACEMENT: After your 60-Day Limited Warranty, if your CD becomes unusable, fill out and return 1) this form and 2) your payment (see pricing below, add sales tax if applicable), to the address below to receive replacement disks. *DURING THE 60-DAY LIMITED WARRANTY PERIOD, THIS SERVICE IS FREE.* You must be a registered customer in order to receive disk replacements.

FOR CD REPLACEMENT

Please send me: ___ CD (replacement)

Name _____

Company Name _____

Street Address (No P.O. Boxes, Please)_____

City _____ State _____ Zip/Postal Code _____

Country* _____Daytime Phone _____

Software Purchase Date _____

*This offer limited to U.S., Canada, and Mexico. Outside North America, contact your local Symantec office or distributor.

Briefly describe the problem:_____

_____

Disk Replacement Price $ 10.00
Sales Tax (See Table)   _____
Shipping & Handling $ 9.95
TOTAL DUE   _____

SALES TAX TABLE: AZ (5%), CA (7.25%), CO (3%), CT (6%), DC (5.75%), FL (6%), GA (4%), IA (5%), IL (6.25%), IN (5%), KS (4.9%), LA (4%), MA (5%), MD (5%), ME (6%), MI (6%), MN (6.5%), MO (4.225%), NC (6%), NJ (6%), NY (4%), OH (5%), OK (4.5%), PA (6%), SC (5%), TN (6%), TX (6.25%), VA (4.5%), WA (6.5%), WI (5%). Please add local sales tax (as well as state sales tax) in AZ, CA, FL, GA, MO, NY, OH, OK, SC, TN, TX, WA, WI.

FORM OF PAYMENT ** (CHECK ONE):

___ Check (Payable to Symantec) Amount Enclosed $ _____   __ Visa   __ Mastercard   __ American Express

Credit Card Number _____Expires _____

Name on Card (please print) _____ Signature _____

**U.S. Dollars. Payment must be made in U.S. dollars drawn on a U.S. bank.

MAIL YOUR CD REPLACEMENT ORDER TO:

Symantec Corporation
Attention: Order Processing
175 West Broadway
Eugene, OR 97401-3003
Please allow 2-3 weeks for delivery within the U.S.

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